

SECTION 09270

DECORALITE™ INTERIOR PRE-COATED FOAM MOULDING

INTERIOR PRECOATED FOAM MOULDING

Note: This specification is only a guide for experienced specification writers and should not be used as an actual specification without appropriate modifications for specific use intended. It must be integrated into and co-ordinated with procedures of each consulting firm, Decorawall Inc., and requirements of specific project(s).

PART 1 - GENERAL

1. SECTION INCLUDES

A. System consists of adhesive attachment and pre-coated interior foam mouldings consisting of; pre-cut foam insulation core shapes; and lightweight polymer-modified flexible plaster coating with acrylic plaster finish.

2. RELATED SECTIONS

- A. Section 06200 - Finish Carpentry
- B. Section 06400 - Architectural Woodwork
- C. Section 07900 - Joint Sealers
- D. Section 09200 - Plaster Work
- E. Section 09250 - Gypsum Board Work
- F. Section 09300 - Tile
- G. Section 09500 - Ceilings
- H. Section 09700 - Wall Finishes
- I. Section 09900 - Paints and Coatings

3. REFERENCES

- A. ASTM Standard(s):
 - E84, Standard Test Method for Surface Burning Characteristics of Building Materials
 - 2. C475 Standard Specification for Joint Compound and Joint Tape for Finishing Gypsum Board
 - 3. C578 Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation.

B. ULC Standard(s):

1. CAN/ULC-S102, Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies.
2. CAN/ULC-S701, Standard for Thermal Insulation, Polystyrene, Boards and Pipe Covering.

4. **TERMS/DEFINITIONS**

NOTE: Adhesive attachment is standard method of attachment.

- A. Adhesive: A material used to attach interior pre-coated foam mouldings to substrate
- B. DECORALITE™ – Trademark name of pre-coated interior mouldings manufactured by Decorawall Inc.

5. **Design Limitations**

- A. Maximum allowable substrate system deflection, normal plane of wall: $L/240$
- B. Details shall conform with Decorawall's recommendations and shall be consistent with project requirements. Consult with Decorawall Inc. when special non-standard shapes or conditions arise.
NOTE: Expansion and control joints are required in system where they exist in substrate, and where system adjoins dissimilar construction. Specify sealant in appropriate Section.
- C. Terminate Interior pre-coated foam mouldings at expansion joints. Sealant shall be detailed and installed. Refer to typical details.
- D. Do not apply urethane based Finish Coat to Decoralite.

1.06 Quality Assurance

- A. Contractor Requirements:
 1. Perform work of this Section by a company that has proven experience in installing interior pre-coated foam mouldings of a similar size and nature and that is approved by the Manufacturer.
 2. Provide proper equipment, workers and supervision on job site to install interior pre-coated foam mouldings in compliance with contract documents and manufacturer's specifications and recommendations.

7. **Product Delivery, Storage and Handling**

- A. Deliver materials supplied by Decorawall Inc. in original, unopened and undamaged packaging with legible manufacturer's identification and labels intact.
- B. Store products supplied by Decorawall Inc. in a cool, dry place protected from direct sunlight, weather and other damage.

- C. Make available material safety data sheets (MSDS) for adhesives and joint compounds.
8. **Project Conditions:**
- A. Environmental Conditions:
 - 1. Install adhesive and joint compound materials at an ambient temperature of 10 degrees C (50 degrees F) and with relative humidity below 80% and maintain for a minimum of 12 hours before, during and after application.
 - 2. Provide supplemental heat for applications when temperature is less than 10 degrees C (50 degrees F). Provide sufficient ventilation and time to ensure that materials have sufficiently cured prior to removing supplemental heat.

PART 2 – PRODUCTS

2.01 Manufacturer

Decorawall Inc.
36 Shelley Road, unit 3
Richmond Hill, Ontario
L4C 5G3 Canada

2.02 Materials – Interior Pre-coated Foam Mouldings

- A. Adhesive: High strength setting type joint compound with 45 and 90 minute setting times and conforming to ASTM C475.
- B. Insulation core: Expanded Polystyrene(EPS) conforming to physical properties of ASTM C 578, Type 2 or CAN/ULC-S701, Type 2, 32 kg/cu meter (2 lb/cu ft) density.
- C. Joint Compound: All purpose joint compound conforming to ASTM C475

3. MATERIALS - OTHER MANUFACTURERS

- A. Finish Coat: type, colour, and texture as selected by Owner/Consultant and approved for use over interior pre-coated foam mouldings by Decorawall Inc.

PART 3 EXECUTION

3.01 Substrate

- A. Substrate shall be of a type approved by interior pre-coated foam moulding manufacturer.
- B. Verify substrate surfaces are solid, free from moisture, dust, projections and any other foreign matter detrimental to performance and compatible with adhesive.

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- C. Substrate shall be free of planar irregularities greater than 6.4mm (1/4 inch) in 2.4m (8') and shall be sound and free of foreign substances.
- D. Report unsatisfactory conditions to Contractor for correction by substrate installer before application of system.

3.02 Preparation

A. Adhesive and joint compound: Premixed as received from manufacturer prior to beginning application. Add clean, potable water to powdered products and mix in accordance with package instructions.

3.03 APPLICATION

- A. Install Decoralite™ smooth, seamless, plumb, true, flush, and with square, plumb, and neat corners.
- B. Apply a 9.5mm (3/8 inches) to 12mm (1/2 inch) bead of adhesive to the top and bottom back surface of the Decoralite™.
- C. While adhesive is still wet, press into ceiling corner and clean excess adhesive to create a smooth joint with trowel or damp sponge.
- D. When joining inside, outside, or mitred lengths of Decoralite™, apply 6mm (1/4 inch) joint compound to one side of adjoining piece and joint with constant pressure insuring a void free joint. Wipe off excess joint compound, but do not wipe clean.
- E. Let joint compound dry and sand smooth with fine grit sanding paper or sponge.
- F. Finished joint should be smooth and ready for Finish Coat.
- G. Finish Coat:
 - 1. Apply Finish Coat to Decoralite™ in accordance with Finish Coat system Manufacturer's written instructions.
 - 2. Apply finish Coat for Decoralite™ in accordance with manufacturer's current published instructions.
 - 3. Specify texture and colour of finish in accordance with approved sample. All mechanics applying texture and finish shall utilize same tools, equipment and techniques to achieve uniformity.